

Claims 14-20 (cancelled)

21. (New) A stereoscopic attachment for a camera or projector for providing left and right eye images with a horizontal axis of view of approximately  $45^\circ$  along the axis of a single camera lens, the apparatus comprising:

optical means arranged to provide said left and right images as a pair of head-to-head or toe-to-toe images such that the left and right eye images are simultaneously recorded as a composite image onto a single frame of a recording medium;

said optical means including two reflecting elements for each of the two images respectively with the reflecting elements being positioned in front of a camera lens;

said reflecting elements including first and second reflecting elements arranged to receive the left and right eye images respectively and further including third and fourth reflecting elements arranged to receive said left and right eye images from said first and second reflecting elements to provide said left and right eye images along the axis of a camera lens whose axis is set at  $90^\circ$  to the direction of view of said first and second reflecting elements;

said first and second reflecting elements comprising first and second plane mirrors and said third and fourth reflecting elements comprising two smaller plane mirrors positioned adjacent to each other;

said first and second plane mirrors each being arranged to reflect the light rays

of the left and right eye images respectively onto the smaller plane mirrors which are arranged to reflect the incident light rays towards said camera lens;

an optical element arranged to extend the horizontal angle of view of the apparatus, the optical element comprising a pair of optically identical first lenses or lens groups of negative optical power, each first lens or lens group being located along the respective axes of the left and right eye images and in front of the said first and second reflecting elements;

the optical element also comprising a second lens or lens group of positive power located along the axis between the camera lens and the third and fourth reflecting elements such that both the left and right eye images are incident on the second lens or lens group;

both parts of the optical element being coupled to a convergence adjustment means so that operation of said convergence adjustment means causes adjustment of the two parts of said optical element; and

a viewing device comprising a viewing box into which said composite image is projected, the viewing box having a wall and one or more reflective surfaces that are arranged to project the left and right eye images onto said wall, the viewing box further comprising a viewing window through which said projected composite image may be viewed.